

Modaser Mojadiddi

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EDUCATION

University of Toronto

Honours Bachelor of Science in Computer Science & Mathematical Sciences Double Major

Expected: April 2026

- CGPA: 3.77/4.0, Dean's List Scholar: 2021-2024

- Relevant Coursework: Software Engineering, System Programming, Data Structures & Analysis, Algorithm Design & Analysis, Information & Computer Security, Databases, Machine Learning, Reinforcement Learning, Neural Networks & Deep Learning

EXPERIENCE

Ontario Teachers' Pension Plan

Intern Software Engineer

May 2024 – August 2025

Toronto, Ontario, Canada

- Co-developed the in-house AI chat app using Python, React, & Azure featuring a chatbot, RAG, MCP, LangChain agents, extraction, and automation tools leveraging OpenAI & Claude adopted by 400+ employees, with 80+ daily users
- Developed a tax document extraction tool using Python and a self trained Document Intelligence model monitored using Databrick's integrated MLflow reducing manual extraction time by 100%
- Built a controversy monitoring service for flagging incidents in holdings leveraging OpenAI & Websearch APIs storing data in Snowflake with human-in-the-loop validation UI, reducing manual workload by 85%
- Created and presented POCs on Airflow, Snowflake, AKS, and Azure OpenAI to teams across the organization, accelerating adoption of these tools in 5+ projects
- Maintained 10+ .NET applications for critical business services related to SimCorp Dimension & Charles River Development ensuring little to no downtime and successful completions
- Developed a Python & React AKS app with OAuth2.0 for portfolio managers to execute corporate action votes, improving auditing, coordination for 20+ users, and cutting manual tracking errors by 90%

Bell Canada

Intern Software Engineer

May 2023 – August 2023

Toronto, Ontario, Canada

- Developed and maintained the official websites of Bell Media owned TV networks resulting in new features, faster and more reliable user experience using JavaScript, Vue, CSS, AEM
- Collaborated in refactoring and optimizing the code base for multiple Network's Web Applications for better performance resulting in reduction of 0.5 seconds in website load times
- Integrated mParticle into our codebase to enable the tracking of analytical data, enhancing our ability to deliver an improved user experience
- Implemented automated regression testing eliminating manual testing and decreasing time by 75% using BDD practices, Selenium, Cucumber, Gherkin, and Java

University of Toronto Hatchery - University Health Network

Full Stack Developer Intern

September 2022 – April 2023

Toronto, Ontario, Canada

- Developed web-pages using JavaScript, PHP, SQL to display new studies, research and news
- Designed and built an automated timesheet submission application, enabling team members to effortlessly submit timesheets which eliminated the need for manual intervention by intermediaries
- Produced extensive documentation to guide developers and users through newly implemented features to facilitate seamless adoption and understanding

University of Toronto

Teaching Assistant - Computer Science and Math Courses

September 2023 – December 2025

Mississauga, Ontario, Canada

- Created tutorial content and taught tutorial sections of 35+ students
- Coordinated and graded assignments for 1000+ students

PROJECTS

Recommendation Engine

Academic paper recommendation engine POC for Knowlecy (startup)

- Contributed to developing a user-activity processor with FastAPI to track interactions and store vector embeddings generated using an open source model in Qdrant. Designed an embedding-based recommendation algorithm and developed a database API in Python to streamline communication with Neo4j and Qdrant. Released microservices to AKS using GitHub Actions CI/CD

OpenFeedbackVault

A Collection of Human AI Feedback Datasets

- Co-developed an end-to-end website for human AI feedback datasets. Backend built using Node.js & REST API, with metadata stored in PostgreSQL. Deployed using Docker on an Apache2 server. Additionally, created a chatbot using Llama integrated with a RAG system leveraging dataset metadata for contextual responses

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, TypeScript, C, C++, C#, Rust, PHP, Bash, PERL, HTML, Go

Frameworks: Node.js, Next.js, LangChain, React, Spring, Vue, Flask, Angular, .NET, FastAPI, PyTorch, TensorFlow

Developer Tools: Git, Snowflake, Helm, Azure, Jenkins, Databricks, Airflow, Docker, Linux, GitHub Actions, AWS